MONTHLY BULLETIN

OF

THE OBSERVATORY

AMERICAN UNIVERSITY OF BEIRUT

FORMERLY

SYRIAN PROTESTANT COLLEGE

BEIRUT, SYRIA

LAT. 33° 54′ 22″ N.

LONG. E. FROM GREENWICH 35° 28′ 10″

DECEMBER, 1933

J. A. BROWN, DIRECTOR

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DECEMBER 1933
METEOROLOGICAL REGISTER

Date	Barometer reduced to 0°C Sea level and 45° Latitude 700 mm. + ...				Thermometer Cent.					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	65.9	65.7	66.9	66.2	14.0	12.2	13.6	13.8	11.4	12.9
2	5.8	6.3	2.3	3.8	16.7	10.4	13.6	15.9	13.5	14.3
3	59.3	58.3	58.4	58.7	19.4	12.4	16.9	18.5	17.0	17.5
4	61.9	62.3	63.2	62.5	17.9	14.6	17.4	16.8	15.3	16.5
5	63.6	3.1	3.5	3.4	16.0	14.1	15.5	15.3	12.2	14.3
6	64.0	63.5	63.7	63.7	15.0	9.4	12.7	14.6	11.4	12.9
7	3.4	2.1	2.1	2.5	17.7	10.7	15.2	17.4	15.6	16.1
8	2.7	2.3	3.5	2.8	20.1	14.5	17.9	19.3	15.5	17.6
9	4.4	3.7	4.7	4.3	18.1	13.4	16.7	17.4	14.7	16.3
10	5.0	3.1	3.2	3.8	19.9	13.7	16.9	18.3	16.0	17.1
11	61.6	60.4	61.0	61.0	20.2	15.6	19.1	18.3	17.1	18.2
12	1.1	59.0	57.5	59.2	19.6	15.6	18.0	19.3	16.4	17.9
13	59.5	61.0	63.2	61.2	19.8	15.9	17.9	19.5	17.7	18.3
14	64.6	2.6	2.8	3.3	19.8	14.6	18.0	19.2	16.3	17.8
15	1.9	0.5	1.5	1.3	20.3	15.4	17.6	19.3	16.4	17.8
16	61.1	61.1	59.8	60.7	20.7	16.2	19.4	16.0	18.6	18.0
17	1.3	1.1	62.9	1.8	23.2	15.8	21.3	21.1	17.6	20.0
18	4.1	3.4	2.2	3.2	19.0	17.2	18.3	18.0	17.2	17.8
19	57.0	56.9	57.5	57.1	22.6	16.9	22.3	19.1	16.9	19.4
20	7.4	1.8	3.5	54.6	23.3	16.1	16.2	19.7	20.6	18.8
21	56.4	56.5	58.2	57.0	20.9	16.2	19.3	19.6	17.1	18.7
22	9.5	9.8	60.1	9.8	17.9	15.6	16.9	17.3	15.6	16.6
23	61.7	62.2	3.4	52.4	15.3	12.2	14.2	15.0	11.6	13.6
24	2.9	3.0	3.6	3.2	12.7	9.9	12.6	12.0	10.2	11.6
25	5.8	6.0	7.6	6.5	10.3	6.8	8.2	8.2	5.9	7.4
26	69.8	69.4	69.6	69.6	10.5	5.2	8.9	10.2	7.6	8.9
27	70.2	9.2	9.3	9.6	12.8	6.6	9.7	12.2	9.9	10.6
28	68.9	6.6	5.9	7.1	14.9	9.1	12.2	14.3	12.0	12.8
29	3.6	2.8	4.0	3.5	17.1	11.3	14.2	16.8	13.9	15.0
30	5.3	4.4	5.3	5.0	16.9	11 6	14.1	16.5	12.9	14.5
31	4.3	3.9	4.1	4.1	16.9	11 3	13.0	15.9	15.0	14.6
	763.03	762.22	762.72	762.67	17.72	12.92	15.75	16.60	14.48	15.60

Barometer, range for month 751.8 –770.2 mm.

„ 50-yr. average for month 763.285 mm.

Thermometer, Range for month 5.2° C—23.3° C.

„ 50-yr. average for month 15.90° C.

Rain, total for month 104.65 m.m.

„ , 50-yr average for month 190.75 mm.

„ , total, Sept. 1st to end of month 210.17 mm.

„ , 50-yr. average, Sept. 1st to end of month 385.83 mm.

DECEMBER 1933
METEOROLOGICAL REGISTER

Date	Wet Bulb Cent.			Elasticity of Vapor mm.				Relative Moisture per cent.				Sun hrs.	Rain mm.
	8:30	14:30	20:30	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean		
1	9.5	9.1	8.1	6.8	6.4	6.4	6.5	59	54	64	59	9.0	
2	9.7	12.1	10.9	7.1	8.4	8.4	8.0	61	63	72	65	3.0	
3	11.8	13.1	13.2	7.6	8 4	9.1	8.4	53	52	64	56	0.0	
4	14.1	12.2	11.5	10.0	8.1	8.1	8.7	67	57	63	62	4.2	
5	10.9	10.4	8 4	7.6	7.1	6.4	7.0	59	54	60	58	5.6	0.25
6	8.3	10.2	8.6	6.1	7.1	6.9	6 7	57	57	69	61	9.0	9.91
7	10.4	11.8	10.8	7.1	7.5	7.3	7.3	55	51	56	54	5.6	
8	14.3	14.6	12.0	10.0	9.7	8.5	9.4	65	58	65	63	6.5	0.76
9	12.6	14.4	12.4	8.6	10.4	9.4	9.5	61	71	76	69	8.5	
10	16.7	16.2	13.4	9.8	12.2	9.9	10.7	69	79	73	74	3.5	
11	15.9	17.1	15.2	11.5	13.6	11.6	12.2	71	87	80	79	2.0	2 03
12	15.4	15.7	14.3	11.4	11.1	10.8	11.1	74	67	78	73	5.0	0 51
13	16.2	14.8	12.5	12.5	9.9	8.1	10.2	82	60	53	65	0.0	21.59
14	14.2	15.6	13.8	9.8	10.9	10.2	10.3	63	67	75	68	6.5	8.13
15	14.4	16.1	13.9	10.2	11.6	11.3	10.7	69	69	74	71	2.0	6.99
16	13.6	14.2	15.4	8.6	10.9	11.1	10.2	51	82	70	68	0.0	15.87
17	18.3	18.7	16.5	13.6	14.4	13.2	13.7	72	77	89	79	1.0	0.25
18	17.4	17.2	16.3	14.2	13.9	13.3	13.8	91	91	91	91	0.0	19.18
19	16.3	17.6	16.3	10.4	13.9	13.3	12.5	51	84	93	76	0.0	19.18
20	15.6	16.9	18.2	12.7	12.5	13.8	13.0	93	73	77	81	0.0	
21	16.5	16.6	15.0	12.1	12.1	11.3	11.8	73	72	78	74	0.0	
22	12.8	12.3	11.2	8.8	8.1	7.6	8.2	62	56	58	59	0.0	
23	13.2	12.4	11 2	10.7	9.2	9.6	9.8	89	73	94	85	0.0	
24	9.9	8.7	6.9	7.6	6.7	5.9	6 9	70	65	63	66	0.0	
25	5.1	4.8	3.7	5.1	4.9	4.9	5.0	63	61	72	65	7.5	
26	5.2	6.2	4.6	4.9	5.3	5.0	5.1	59	58	64	60	8.0	
27	5.3	8.3	6.9	4.8	6.3	5.9	5.7	53	59	65	59	6.8	
28	8.4	11.0	9.8	6.4	8.6	7.8	7.4	60	66	75	67	7.5	
29	10.9	13.5	9.3	8.0	9.6	6.5	8.0	67	68	56	64	6.0	
30	9.5	11.9	9.3	6.7	8.0	6.9	7.2	56	67	63	62	7.5	
31	8 6	11.6	10.6	6.3	7.9	7.3	7.2	56	60	67	58	8.0	
	12.19	13.07	11.62	8.93	9.49	8.87	9.10	65.5	66.3	70.5	67.7	3.97	3.35

Height of Barometer above sea level: 33.7 meters.
" " Thermometers above ground:
Dry and wet 1.55 m.; Max. 1.75 m.: Min. 1.70 m.
Rim of Rain Gauge: above ground 0.56 m.; above sea level 30.31 m.
Time of readings minus 2 hours equals G. C. T.
50-year averages are for period, 1875-1924

DECEMBER 1933
METEOROLOGICAL REGISTER

Date	Clouds. Clear—0 Overcast—10				Direction and force of Wind 0—10			Wind per day	Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Km.		
1	1cu	0	0	0.3	3ne	4s	1se	417.4	stormy	
2	7ci	6ci	6ci	6.3	0	3ne	0	290.2	slight	
3	10cu	10cu	4ci	8.0	0	1sw	1sw	193.3	„	traces of rain
4	4ci	2ci	1ci	2.3	4sw	4n	3sw	344.6	mod.	„ „ „
5	5ci	6ci	0	3.7	3sw	2sw	1e	280.3	„	
6	0	0	0	0.0	1s	1sw	1se	194.4	light	
7	0	9ci	0	3.0	1sw	3w	0	176.0	slight	mist in the morning
8	8ci	0	0	2.7	0	1w	1sw	178.0	„	„ „ „
9	0	0	0	0.0	0	1w	1s	257.8	light	„ „ „
10	8cu	10cu	0	6.0	0	1s	1se	300.0	calm	
11	4cu	9cu	9cu	7.3	3s	2sw	1s	516.0	mod.	
12	9cu	7cu	0	5.3	0	2nw	0	239.6	slight	
13	9cu	8cu	2cu	6.3	4s	4w	2w	483.6	„	
14	9cu	6cu	0	5.0	0	1sw	0	308.0	„	
15	8ci	8stcu	0	5.3	0	0	1w	221.5	light	
16	10cu	10ni	10ni	10.0	1w	0	0	305.3	slight	
17	10cu	10stcu	9ni	9.7	2nw	3sw	0	401.3	„	
18	10cu	10ni	10ni	10.0	4sw	0	1w	419.9	„	
19	10ni	10ni	10ni	10.0	4s	1s	1e	457.0	„	lightening at night
20	10ni	10ni	10ni	10.0	0	3sw	3sw	497.5	„	
21	10cu	10cu	10ni	10.0	5sw	6sw	5sw	989.2	mod.	
22	9stcu	10stcu	2cu	7.0	4sw	5sw	6sw	962.9	stormy	
23	10ni	10cu	10ni	10.0	5sw	4sw	2sw	966.4	„	
24	10cu	10ni	10ni	10.0	4sw	4sw	4sw	948.5	„	
25	5cu	6cu	2cu	4.3	2nw	0	1se	430.5	mod.	
26	1cu	1cu	0	0.7	1w	0	1se	502.4	slight	
27	2cu	1cu	0	1.0	1nw	1nw	1sw	243.0	light	
28	0	4ci	6st	3.3	0	0	1sw	160.9	calm	
29	7ci	3cu	7stcu	5.7	1sw	2sw	1s	248.4	slight	
30	0	1ci	1ci	0.7	0	4ne	0	360.6	„	
31	4ci	5ci	10cu	6.3	0	0	1s	161.0	mod.	
				5.49	1.7	2.0	1.4	401.78		

Number of Daily Wind Observations

Time	N	NE	E	SE	S	SW	W	NW	Calm	Totals
8:30	0	1	0	0	4	9	2	3	12	31
14:30	1	2	0	0	3	13	3	2	7	31
20:30	0	0	2	5	4	10	3	0	7	31
Totals	1	3	2	5	11	32	8	5	26	

Number of days with rain 12, fog 3, thunderstorm 0, gale 0.

50-yr average number of days with rain during month 13.4